

ABSTRACT**PURIFICATION METHODS FOR OLIGONUCLEOTIDES AND THEIR ANALOGS**

The present invention discloses methods for separating oligonucleotides from
5 impurities. In the methods of the invention, a target oligonucleotide, in a mixture
comprising the target oligonucleotide and an impurity, is separated from the impurity using
a titratable anion exchange composition. The target oligonucleotide is bound to the
titratable anion exchange composition and an eluting solution which increases in pH over
time is passed through the titratable anion exchange composition with the target
10 oligonucleotide bound thereon. Preferably, the eluting solution does not substantially
increase its salt concentration. The target oligonucleotide is eluted and thereby separated
from the impurity which either elutes at a lower pH or a higher pH than the target
oligonucleotide.